\*

Version number 3

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1.1 Product identifie	r -	
Trade name: Ammo		SERVA
Article number: 397	<u>_</u>	serving scientists
CAS Number:	55	
7783-20-2		· · · · · · · · · · · · · · · · · · ·
EC number:		
231-984-1		
1.2 Relevant identifi	ed uses of the substance or mixture and	uses advised against
	nformation available.	
Application of the si	<b>ibstance / the mixture</b> Laboratory chemi	icals
.3 Details of the su	pplier of the safety data sheet	$\mathbf{O}$
Manufacturer/Suppl		
SERVA Electrophore	esis GmbH	. 5
Carl-Benz-Str. 7		Col
D-69115 Heidelberg		2
Tel.: +49 6221 1384		
FAX: +49 6221 1384	10-10	and the second sec
nsds.info@serva.de		)
	nent: Product Safety department Tel.: +4	49 6221 13840-35
.4 Emergency telep		
	Information in case of poisoning:	
	Center Mainz - Phone: +49 (0) 6131 192	40
advisory service in	German or English language)	
	C Y	
SECTION 2: Haza	ards identification	
	the substance or mixture ding to Regulation (EC) No 1272/2008	
	classified according to the CLP regulati	on
2.2 Label elements	to Boundation (EC) No 1272/2008 Void	
0	to Regulation (EC) No 1272/2008 Void	
Hazard pictograms Signal word Void	7014	
Hazard statements V	Void	
2.3 Other hazards	Uiu -	
Results of PBT and	vPvB assessment	
<b>PBT:</b> Not applicable		
PvB: Not applicabl		
_		
	• ,• ,• ,• ,•	
DECTION 3: Com	position/information on ingredients	
.1 Chemical charad	cterisation: Substances	
CAS No. Description	1:	
783-20-2 ammoniui		
dentification numb		
EC number: 231-98		
	lising additives:	
mpurities and stabi		
CAS: 105-60-2	epsilon-caprolactam	
CAS: 105-60-2		1332; Skin Irrit. 2, H315; Eye Irrit. 2, H319,

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- Description:
- · Empirical formula: (NH<sub>4</sub>)<sub>2</sub> S O<sub>4</sub>
- **MW:** 132.2

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately rinse with water.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing
- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be formed, but not limited to: Nitrogen oxides (NOx)

Sulphur dioxide (SO<sub>2</sub>)

Carbon monoxide (CO)

- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

#### **SECTION 6:** Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections No dangerous substances are released.

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Prevent formation of dust.
- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in dry conditions.
- · 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

• Additional information about design of technical systems: No further data; see item 7.

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- · 8.1 Control parameters · Components with limit values that require monitoring at the workplace: Not required. • Additional information: The lists that were valid during the creation were used as basis. · 8.2 Exposure controls · Personal protective equipment · General protective and hygienic measures The usual precautionary measures should be adhered to when handling chemicals. · Breathing equipment: Suitable respiratory protective device recommended. · Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. · Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Natural rubber, NR Nitrile rubber, NBR · Eye protection: Safety glasses
  - **Body protection:** Protective work clothing.

SECTION 9: Physical and chemi	cal properties	
· 9.1 Information on basic physical an	nd chemical properties	
General Information		
· Appearance:		
Form:	Crystalline powder	
Colour:	White	
· Odour:	Odourless	
• pH-value (100 g/l) at 20 •C:	4.5 - 5.5	
Change in condition		
Melting point/freezing point:	350 °C	
Initial boiling point and boiling ra	nge: undetermined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Product is not flammable.	
Explosive properties:	Product does not present an explosion hazard.	
Density at 20 °C:	1.766 g/cm <sup>3</sup>	
Bulk density at 20 °C:	ca. 1000 kg/m <sup>3</sup>	
Solubility in / Miscibility with		
Water at 20 °C:	754 g/l	
· 9.2 Other information	No further relevant information available.	

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#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- $\cdot$  10.3 Possibility of hazardous reactions No dangerous reactions known
- $\cdot$  10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

#### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

*Oral LD50 4540 mg/kg (rat)* 

LC50/96h 173 mg/l (Forelle)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- *Remark: EC*50 / 96 h (*Daphnia magna*): > 100 mg / l
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION 14: Transport information	
14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne Marpol and the IBC Code	<b>x II of</b> Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN ''Model Regulation'':	Void

#### **SECTION 15: Regulatory information**

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 65

· National regulations

- Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH)
- *vPvB: very persistent, very bioaccumulative substance (REACH)*
- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
- CLP: Regulation on classification, labelling and packaging of substances and mixtures
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent

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#### Trade name: Ammonium sulfate

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative • **\* Data compared to the previous version altered.**  (Contd. of page 5)

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